

Response to Arguments

1. Applicant's arguments filed March 7, 2008 have been fully considered but they are not persuasive. Applicant argues that Kaneko does not disclose the block defining module and the relation generating module of independent claim 1, or the performing a block locating process step, the creating a link record step, the performing a tracking and defining process step, and the creating the relation data document step of independent claim 5. The Examiner respectfully disagrees.

With Respect to claim 1, it is understood that applicants system comprises of a block defining module and a relation generating module as disclosed in the specification. However, with specific reference to the claims which are given its broadest reasonable interpretation in light of the specification, Kaneko discloses a block defining module (See fig 1, which discloses a region extracting portion), performing a block locating process according to a selection input by the user on a display page frame of a video data selection(See [0096]-[0099] which discloses extracting regions of an object such as a head of a person performed by the user), and creating a link record in a corresponding relation data document of the video data selection(See [0105]-[0106] and [0145]-[0147] which discloses related information storage portion whereby the pointing related information is used so that the retrieval and display of information related to the object can easily be performed). Furthermore, Kaneko discloses a relation generating module(See Fig 1., which discloses a region of figure approximating), wherein the relation generating module according to a block location information performs a tracking

Art Unit: 2623

and defining process of similar block locations in following page frames of the video data selection(See [0016]-[0023], and [0135]-[0141] which discloses identifying correspondence between plural points of the present frame and a plurality of points of an adjacent frame or points in all of the frames relating to the object region obtained), and adding definition results in corresponding relation data documents. (See [0135]-[0147]). Thus, Kaneko teaches all of the claim limitations as claimed.

With Respect to claim 5, it is understand that applicants method comprises of a performing a block locating process step, the creating a link record step, the performing a tracking and defining process step, and the creating the relation data document step as disclosed in the specification. However, with specific reference to the claims which are given its broadest reasonable interpretation in light of the specification, Kaneko discloses the step of performing a block locating process (See [0096]-[0099]) including: determining optical flow properties of a block location according to the position information of the display page frame(See [0173], which discloses that optical flow can be used), generating a block boundary according to the optical flow properties, performing block feature extraction(See [0096]-[0099], Fig.11 and [0173]-[0174] which discloses extracting regions of an object such as a head of a person performed by the user), and performing a clustering process, and creating the block location(See Fig.11, Fig. 12 and [0173], which states that clustering is performed and illustrates block locations);

Art Unit: 2623

creating a link record of the display page frame, and saving it in a relation data document(See [0105]-[0106] and [0145]-[0147] which discloses related information storage portion whereby the pointing related information is used so that the retrieval and display of information related to the object can easily be performed); performing a tracking and defining process on the following page frames of the video data selection(See [0016]-[0023], and [0135]-[0141] which discloses identifying correspondence between plural points of the present frame and a plurality of points of an adjacent frame or points in all of the frames relating to the object region obtained); and creating the relation data document of the video data selection(See [0145]-[0147]). Thus, Kaneko teaches all of the claim limitations as claimed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-6 and 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kaneko et al., US 2003/0086613.

Regarding claim 1, Kaneko discloses an interactive video data generating system, operable to perform link relations on video data selected by a user so as to enable interactive broadcasting (See [0022]-[0025]), the system comprising:

a file document database(See Fig.1, 100), storing video data files used as link relation and corresponding relation data documents(See[0022]);

a selection input module(See [0096], which discloses a GUI), generating an event-triggering signal according to a selection input manipulation from the user to perform selection input manipulation on video data files and display page frames of a video data selection(See [0096], which states that video data is displayed in to permit input of an instruction from the user) ;

a link display module (See fig.29, 303, which discloses a related information display), providing the user with an interface for displaying tables of the video data files, wherein the link display module receives the event-triggering signal to prompt a video data selection item and broadcasts the display page frames and the corresponding relation data documents(See fig 37 and [0348]-[0349]) ;

a block defining module (See fig 1, which discloses a region extracting portion), performing a block locating process according to a selection input by the user on a display page frame of a video data selection(See [0096]-[0099] which discloses extracting regions of an object such as a head of a person performed by the

Art Unit: 2623

user), and creating a link record in a corresponding relation data document of the video data selection(See [0105]-[0106] and [0145]-[0147] which discloses related information storage portion whereby the pointing related information is used so that the retrieval and display of information related to the object can easily be performed);

and a relation generating module(See Fig 1., which discloses a region of figure approximating), wherein the relation generating module according to a block location information performs a tracking and defining process of similar block locations in following page frames of the video data selection(See [0016]-[0023], and [0135]-[0141] which discloses identifying correspondence between plural points of the present frame and a plurality of points of an adjacent frame or points in all of the frames relating to the object region obtained), and adding definition results in corresponding relation data documents. (See [0135]-[0147])

Regarding claim 2, Kaneko teaches all of the claim limitations of claim 1, wherein the event-triggering signal is created by a sensitive display device or a pointing positioning device. (See [0314], which specifies using a pointing device.)

Regarding claim 3, Kaneko teaches all of the claim limitations of claim 1, wherein the link display module uses a hierarchal menu to display the tables of the video data files and the link records of the relation data documents (See Fig. 37,1803 and [0348]-[0358]).

Regarding claim 4, Kaneko teaches all of the claim limitations of claim 1, further comprising an interactive video-broadcasting interface (See Fig 38, 1900), wherein the interactive video-broadcasting interface comprises a user manipulating area, a video data relation displaying area, and a video-broadcasting area. (See [0350]-[0352]).

Regarding claim 5, an interactive video data generating method, implemented to perform link relations on video data selected by a user so as to enable interactive broadcasting(See [0022]-[0025]), the method comprising: analyzing a position information of a display page frame, the step of performing a block locating process (See [0096]-[0099]) including: determining optical flow properties of a block location according to the position information of the display page frame(See [0173], which discloses that optical flow can be used), generating a block boundary according to the optical flow properties, performing block feature extraction(See [0096]-[0099], Fig.11 and [0173]-[0174] which discloses extracting regions of an object such as a head of a person performed by the user), and performing a clustering process, and creating the block location(See Fig.11, Fig. 12 and [0173], which states that clustering is performed and illustrates block locations); creating a link record of the display page frame, and saving it in a relation data document(See [0105]-[0106] and [0145]-[0147] which discloses related information storage portion whereby the pointing related information is used so

Art Unit: 2623

that the retrieval and display of information related to the object can easily be performed); performing a tracking and defining process on the following page frames of the video data selection(See [0016]-[0023], and [0135]-[0141] which discloses identifying correspondence between plural points of the present frame and a plurality of points of an adjacent frame or points in all of the frames relating to the object region obtained); and creating the relation data document of the video data selection(See [0145]-[0147]).

Regarding claim 6, Kaneko teaches all of the claim limitations of claim 5, wherein the position information includes coordinate data obtained from an event-triggering signal created by the manipulation of a sensitive display device or a pointing positioning device. (See [0034], which refers to coordinates.)

Regarding claim 8, Kaneko teaches all of the claim limitations of claim 5, wherein a link record at least includes page frame data, block data, a link data item, as well as a plurality of corresponding modules of the block data and the link data (See [0142]-[0147]); wherein the page frame data is either a page frame number or a page frame range, and the link data is either a file or a section. (See Fig. 5 and [0142]-[0147])

Regarding claim 9, Kaneko teaches all of the claim limitations of claim 5, wherein performing a tracking and defining process on following page frames of the video data selection further comprising: reading the block location data (See

Art Unit: 2623

[0099] which discloses specifying a region); tracking the block location in the following page frames (See [0099], which states specifying a region in each of all of the frames and also refers to active contour models); finding the block data and resolving the block location data (See [0099]); and defining the block location according to the previous link record.(See[0099]-[0101], which refers to performing block matching and performing approximation using a result of preceding and following frames).

Regarding claim 10, the method of claim 5, further comprising displaying to the user an interactive video-broadcasting interface having at least a user manipulating area, a video data relation displaying area, and a video-broadcasting area.

Claim 10 is rejected as applied to claim 4.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

Art Unit: 2623

calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contacts

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky Chin whose telephone number is 571-270-3753. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on 571-272-7296. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ricky Chin/
Patent Examiner
AU 2623
(571) 270-3753
Ricky.Chin@uspto.gov

/Andrew Y Koenig/
Supervisory Patent Examiner, Art Unit 2623